



4. An image display apparatus as claimed in claim 3, wherein the two images are a past image and a current image taken of the same human subject.

5. An image display apparatus as claimed in  
5 claim 4, comprising spatial frequency accentuation means for carrying out spatial frequency accentuation processing on the images, and wherein said display control means controls said display means to display the images subjected to the spatial frequency  
10 accentuation processing.

6. An image display apparatus as claimed in claim 5, comprising spatial frequency intensity setting means for setting a spatial frequency intensity of said spatial frequency accentuation processing in accordance  
15 with operational input from the observer, and wherein said spatial frequency accentuation means carries out the spatial frequency accentuation processing on the images at the set spatial frequency intensity.

7. An image display apparatus as claimed in  
20 claim 5, wherein said display means has a color display function, and said display control means controls said display means to display the two images while changing colors of the two images independently.

8. An image display apparatus as claimed in  
25 claim 5, wherein said display control means controls said display means to display the two images while making one of the two images flash.

9. An image display apparatus as claimed in claim 8, wherein a flashing interval at which the one of the two images is made to flash is variable.

10. An image display apparatus as claimed in claim 5, wherein said display means has a display screen, and wherein said display control means controls said display means to carry out rotating, magnifying and shifting at least one of the two images on the display screen of said display means.

11. An image display apparatus as claimed in claim 1, comprising at least two single image display means for displaying each of the two images singly, and wherein said display control means controls said single image display means to display each of the two images singly.

12. An image display apparatus as claimed in claim 11, wherein each of said single image display means has a display screen, the image display apparatus comprising position designation means for designating a position on the display screen of said display means in accordance with operational input from the observer, and wherein said display control means is responsive to a position being designated by said position designation means, for controlling said display means to display a mark in the designated position on the display screen of said display means in a manner being superposed on each of the two images, and wherein, when

the mark is displayed in the position designated by said position designation means on the display screen of said display means, said display control means controls said single image display means to also  
5 display the mark in a position corresponding to the designated position on the display screen of each of said at least two single image display means.

13. An image display apparatus as claimed in claim 12, comprising storage means for separately  
10 storing each of the two images along with position information indicating the corresponding position of the mark.

14. An image display method of displaying two images of the same subject obtained at different times  
15 on display means in a manner such that an observer can fuse the two images together for stereoscopic viewing, the method comprising the steps of:

inputting the two images; and

controlling said display means to display the two  
20 inputted images such that the two inputted images are projected separately into left and right eyes of the observer, whereby the observer can fuse the images together.

15. An image display method as claimed in claim  
25 14, comprising the steps of designating a position on a display screen of said display means in accordance with operational input from the observer, and controlling,

in response to the position being designated by said position designation step, said display means to display a mark in the designated position on the display screen of said display means in a manner being superposed on each of the two images.

16. An image display method as claimed in claim 14, wherein each of the two images is an image produced from a radiation intensity distribution.

17. An image display method as claimed in claim 16, wherein the two images are a past chest X-ray image and a current chest X-ray image taken of the same human subject.

18. An image display method as claimed in claim 17, comprising a step of carrying out spatial frequency accentuation processing on the chest X-ray images, and wherein said display means is controlled to display the chest X-ray images subjected to said spatial frequency accentuation processing.

19. An image display method as claimed in claim 18, comprising a step of setting a spatial frequency intensity of said spatial frequency accentuation processing in accordance with operational input from the observer, and wherein said spatial frequency accentuation processing is carried out on the chest X-ray images at the set spatial frequency intensity.

20. An image display method as claimed in claim 14, wherein said display means has a color display



corresponding to the designated position on a display screen of each of said single image display means, when the mark is displayed in the designated position on the display screen of said display means.

- 5           26. An image display method as claimed in claim 15, further comprising a step of separately storing each of the two images along with position information indicating the corresponding position of the mark.

27. A storage medium storing, so as to be  
10   readable by an information processing apparatus, a program for constructing an image display system for displaying two images of the same subject obtained at different times on display means in a manner such that an observer can fuse the two images together for  
15   stereoscopic viewing, the program comprising:

- an input module for inputting the two images; and  
          a display control module for controlling said  
display means to display the two inputted images such  
that the two inputted images are projected separately  
20   into left and right eyes of the observer, whereby the  
observer can fuse the images together.

28. A storage medium as claimed in claim 27,  
wherein said program comprises a position designation  
module for designating a position on a display screen  
25   of said display means in accordance with operational  
input from the observer, and wherein, in response to  
the position being designated by said position

designation module, said display control module controls said display means to display a mark in the designated position on the display screen of said display means in a manner being superposed on each of  
5 the two images.

29. A storage medium as claimed in claim 28, wherein each of the two images is an image produced from a radiation intensity distribution.

30. A storage medium as claimed in claim 28,  
10 wherein the two images are a past chest X-ray image and a current chest X-ray image taken of the same human subject.

31. A storage medium as claimed in claim 30, wherein said program comprises a spatial frequency  
15 accentuation module for carrying out spatial frequency accentuation processing on the chest X-ray images, and said display control module controls said display means to display the chest X-ray images subjected to said spatial frequency accentuation processing.

20 32. A storage medium as claimed in claim 31, wherein said program comprises a spatial frequency intensity setting module for setting a spatial frequency intensity of said spatial frequency accentuation processing in accordance with operational  
25 input from the observer, and wherein said spatial frequency accentuation module carries out the spatial frequency accentuation processing on the chest X-ray



images at the set spatial frequency intensity.

33. A storage medium as claimed in claim 27,  
wherein said display means has a color display function,  
and said display control module includes program  
5 instructions for controlling said display means to  
display the two images while changing colors of the two  
images independently.

34. A storage medium as claimed in claim 27,  
wherein said display control module includes program  
10 instructions for controlling said display means to  
display the two images on said display means while  
making one of the two images flash.

35. A storage medium as claimed in claim 27,  
wherein said display control module includes program  
15 instructions for controlling said display means to  
carry out rotating, magnifying and shifting at least  
one of the two images on the display screen of said  
display means.

36. A storage medium as claimed in claim 27,  
20 wherein said display means has a color display function,  
and said display control module includes program  
instructions for controlling said display means to  
display the two images while changing colors of the two  
images independently, program instructions for  
25 controlling said display means to display the two  
images while making one of the two images flash, and  
program instructions for controlling said display means

to carry out rotating, magnifying and shifting at least one of the two images on the display screen of said display means.

37. A storage medium as claimed in claim 27,  
5 wherein at least two single image display means for displaying each of the two images singly are provided, and said display control module carries out display processing for controlling each of said single image display means to display a corresponding one of the two  
10 images singly.

38. A storage medium as claimed in claim 27,  
wherein at least two single image display means for displaying each of the two images singly are provided, and said display control module carries out display  
15 processing for controlling each of said single image display means to display a corresponding one of the two images singly, and, when the mark is displayed in the designated position on the display screen of said display means, also carries out processing for  
20 controlling said single image display means to also display the mark in a position corresponding to the designated position on a display screen of each of said single image display means.

39. A storage medium as claimed in claim 27,  
25 wherein said program comprises a storage module for separately storing each of the two images along with position information indicating the corresponding

position of the mark.

40. An image display apparatus comprising:  
storage means for storing a plurality of images of  
the same subject along with information relating to a  
5 correspondence relationship between the images and  
times when the images were taken;

searching means for searching for images having a  
correspondence relationship therebetween from the  
plurality of images stored in said storage means;

10 display means for displaying two of the images in  
a manner enabling an observer to fuse the two images  
together for stereoscopic viewing; and

display control means for reading any two of the  
images from said storage means and controlling said  
15 display means to display the read two images.

41. An image display apparatus as claimed in  
claim 40, wherein said display control means includes  
image processing means for carrying out different image  
processing on each of the two images displayed on said  
20 display means.

42. An image display apparatus as claimed in  
claim 41, wherein said image processing means carries  
out processing to make the two images different in  
color.

25 43. An image display apparatus as claimed in  
claim 41, wherein said image processing means carries  
out processing to make one of the two images flash.



